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DECLARATION and POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

HUMAN GDP-MANNOSE 4,6 DEHYDRATASE

the specification of which
(check one)

is attached hereto.

X was filed on November 22, 1996 as
Application Serial No. 08/753,233
and was amended on _____

I hereby state that I have reviewed and understand the contents of the above-identified specification, including claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information of which I am aware which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

| Number | Country | Filing Date | Priority Claimed |
|--------|---------|-------------|------------------|
| _____ | _____ | _____ | YES/NO |
| _____ | _____ | _____ | YES/NO |

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which

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Date of Deposit: December 3, 1997

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I hereby certify that this declaration is being filed with the United States Postal Service in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231, on February 4, 1998

occurred between the filing date of the prior application and the national or PCT international filing date of this application:

| Application Serial No. | Filing Date | Status |
|------------------------|-------------|--------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Thomas J. DesRosier, Reg. No. 30,168
Ellen J. Kapinos, Reg. No. 32,245
M. C. Meinert, Reg. No. 31,544
— Steven R. Lazar, Reg. No. 32,618
Scott A. Brown, Reg. No. 32,724

Address all telephone calls to Scott A. Brown at Telephone No. (617) 498-8224. Address all correspondence to LEGAL AFFAIRS, GENETICS INSTITUTE, INC., 87 CambridgePark Drive, Cambridge, Massachusetts 02140.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Francis Sullivan

Inventor's signature *Francis Sullivan* 23 Dec '96
Date

Residence 78 Maple Street, Belmont, Massachusetts U.S.A. 02178

Citizenship United States

Post Office Address 78 Maple Street, Belmont, Massachusetts U.S.A. 02178

Full name of second inventor Ronald Kriz

Inventor's signature

Ronald Kriz

Date

1/2/97

Residence 166 Marlboro Street, Hudson, Massachusetts U.S.A. 01749

Citizenship United States

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Full name of third joint inventor Ravindra Kumar

Inventor's signature

Ravindra Kumar

Date

12/23/96

Residence 533 School Street, Belmont, Massachusetts. 02178

Citizenship India

Post Office Address 533 School Street, Belmont, Massachusetts. 02178

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Francis Sullivan et al.

Serial No.: 09/333,177

Filed: June 14, 1999

For: HUMAN GDP-MANNOSE 4,6
DEHYDRATASE

Attorney Docket No.: GFN-5285DV3 (formerly GI-
5285DIV3)

Group Art Unit: 1652

Examiner: Peter Tung

Assistant Commissioner for Patents
Washington, D.C. 20231

Certificate of First Class Mailing (37 CFR 1.8(a))

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on the date set forth below.

6/19/00
Date of Signature and of Mail Deposit

By: 

Amy E. Mandragouras
Reg. No. 36,207
Attorney for Applicants

**REVOCATION OF PRIOR POWERS OF ATTORNEY
AND APPOINTMENT OF NEW POWER OF ATTORNEY**

Dear Sir:

GENETICS INSTITUTE, INC., the Assignee of the entire right, title and interest in the above-identified application by virtue of an executed Assignment document recorded in the U.S. Patent and Trademark Office for U.S. Serial No. 08/753,233 on February 11, 1997, Reel 8344, Frames 0703-0707, now U.S. Patent No. 5,728,568 issued March 17, 1998, hereby revokes all Powers of Attorney with respect to that application heretofore granted and appoints the below listed attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office connected therewith.

| | |
|------------------------|-----------------|
| W. Hugo Liepmann | Reg. No. 20,407 |
| James E. Cockfield | Reg. No. 19,162 |
| Thomas V. Smurzynski | Reg. No. 24,798 |
| Ralph A. Loren | Reg. No. 29,325 |
| Giulio A. DeConti, Jr. | Reg. No. 31,503 |
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| Anthony A. Laurentano | Reg. No. 38,220 |
| Jane E. Remillard | Reg. No. 38,872 |
| Jeremiah Lynch | Reg. No. 17,425 |
| Kevin J. Canning | Reg. No. 35,470 |
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| Rebecca R. Barrett | Reg. No. 35,152 |
| Arnold S. Milowsky | Reg. No. 35,288 |
| George Tarnowski | Reg. No. 27,472 |

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Address all telephone calls to Amy E. Mandragouras at Telephone No. (617) 227-7400.

Pursuant to 37 C.F.R. 3.73(b), a copy of the executed assignment submitted for recording is attached hereto as evidence of the chain of title from the original owners to the assignee.

Please send all correspondence relating to the above patent application to:

Amy E. Mandragouras
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GENETICS INSTITUTE, INC.

By: Barbara A. Gyure

Typed Name: Barbara A. Gyure

Title: Assistant Secretary - Genetics Institute, Inc.

Dated: May 12, 2000